

Claims:

1. A method of speech recognition using a microphone to receive audible sounds input by a user into a first computing device having a program with a database consisting of (i) digital representations of known audible sounds and associated alphanumeric representations of said known audible sounds and (ii) digital representations of known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases, comprising the steps of:
- (a) receiving said audible sounds in the form of the electrical output of said microphone;
 - (b) converting a particular audible sound into a digital representation of said audible sound;
 - (c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine which said known audible sounds is most likely to be the particular audible sound being compared to the sounds in said database;
 - (d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;
 - (e) receiving an error indication from said user indicating that there is an error in recognition;
 - (f) receiving from said user an indication of the proper alphanumeric representations of said particular audible sound;
 - (g) determining whether said error is a result of a known type or instance

of mispronunciation; and

(h) in response to a determination of error corresponding to a known type or instance of mispronunciation, presenting an interactive training program from said computer to said user to enable said user to correct such mispronunciation.

2. A method of speech recognition as in claim 1, wherein said interactive training program comprises playback of the properly pronounced sound from a database of recorded sounds corresponding to proper pronunciations of said mispronunciations resulting from said known classes of mispronounced words and phrases.

3. A method of speech recognition as in claim 2, wherein the user is given the option of receiving speech training or training the program to recognize the user's speech pattern.

4. A method of speech recognition as in claim 3, wherein said determination of whether said error is a result of a known type or instance of mispronunciation is performed by comparing the mispronunciation to said digital representations of known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases using a speech recognition engine.

5. A method of speech recognition as in claim 1, wherein the user is given the option of receiving speech training or training the program to recognize the

user's speech pattern.

6. A method of speech recognition as in claim 1, wherein said determination of whether said error is a result of a known type or instance of mispronunciation is performed by comparing the mispronunciation to said digital representations of known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases using a speech recognition engine.

7. A method of speech recognition as in claim 1, wherein said database consisting of (i) digital representations of known audible sounds and associated alphanumeric representations of said known audible sounds and (ii) digital representations of known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases, is generated by the steps of speaking and digitizing said known audible sounds and said known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases.

8. A method of speech recognition as in claim 7, wherein said database has been introduced into said computing device after said generation by speaking and digitizing has been done on another computing device and transferred together with voice recognition and error correcting subroutines to first computing device.